



1600

RAW SEQUENCE LISTING

DATE: 12/13/2002

PATENT APPLICATION: US/09/717,789A

TIME: 14:50:18

Input Set : A:\W160289.txt

Output Set: N:\CRF4\12132002\I717789A.raw

4 <110> APPLICANT: Chiorini, John
 5 Kotin, Robert M.
 6 Safer, Brian
 8 <120> TITLE OF INVENTION: AAV5 VECTOR AND USES THEREOF
 11 <130> FILE REFERENCE: 14014.0323U3
 13 <140> CURRENT APPLICATION NUMBER: 09/717,789A
 14 <141> CURRENT FILING DATE: 2000-11-21
 17 <150> PRIOR APPLICATION NUMBER: PCT/US99/11958
 18 <151> PRIOR FILING DATE: 1999-05-28
 20 <150> PRIOR APPLICATION NUMBER: 60/087,029
 21 <151> PRIOR FILING DATE: 1998-05-28
 23 <160> NUMBER OF SEQ ID NOS: 24
 25 <170> SOFTWARE: FastSEQ for Windows Version 3.0

ERRORED SEQUENCES

1069 <210> SEQ ID NO: 24
 1070 <211> LENGTH: 735
 1071 <212> TYPE: PRT
 1072 <213> ORGANISM: Artificial Sequence
 1074 <220> FEATURE:
 1075 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
 1076 synthetic construct
 1078 <400> SEQUENCE: 24
 1079 Met Ala Ala Asp Gly Tyr Leu Pro Asp Trp Leu Glu Asp Thr Leu
 1080 1 5 10 15
 1081 Ser Glu Gly Ile Arg Gln Trp Trp Lys Leu Lys Pro Gly Pro Pro Pro
 E--> 1082 20 20 25 25 30 30
 1083 Pro Lys Pro Ala Glu Arg His Lys Asp Asp Ser Arg Gly Leu Val Leu
 E--> 1084 35 40 45
 1085 Pro Gly Tyr Lys Tyr Leu Gly Pro Phe Asn Gly Leu Asp Lys Gly Glu
 E--> 1086 50 55 60
 1087 Pro Val Asn Glu Ala Asp Ala Ala Ala Leu Glu His Asp Lys Ala Tyr
 E--> 1088 65 70 75 80
 1089 Asp Arg Gln Leu Asp Ser Gly Asp Asn Pro Tyr Leu Lys Tyr Asn His
 E--> 1090 85 90 95
 1091 Ala Asp Ala Glu Phe Gln Glu Arg Leu Lys Glu Asp Thr Ser Phe Gly
 E--> 1092 100 105 110
 1093 Gly Asn Leu Gly Arg Ala Val Phe Gln Ala Lys Lys Arg Val Leu Glu
 E--> 1094 115 120 125
 1095 Pro Leu Gly Leu Val Glu Glu Pro Val Lys Thr Ala Pro Gly Lys Lys
 E--> 1096 130 135 140

Does Not Comply
 Corrected Diskette Needed

pp 1-3

misaligned
 amino acid
 numbers
 (see item 3
 on Error
 Summary Sheet)

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```

1097 Arg Pro Val Glu His Ser Pro Val Glu Pro Asp Ser Ser Ser Gly Thr
E--> 1098 145 150 155 160
1099 Gly Lys Ala Gly Gln Gln Pro Ala Arg Lys Arg Leu Asn Phe Gly Gln
E--> 1100 165 170 175
1101 Thr Gly Asp Ala Asp Ser Val Pro Asp Pro Gln Pro Leu Gly Gln Pro
E--> 1102 180 185 190
1103 Pro Ala Ala Pro Ser Gly Leu Gly Thr Asn Thr Met Ala Thr Gly Ser
E--> 1104 195 200 205
1105 Gly Ala Pro Met Ala Asp Asn Asn Glu Gly Ala Asp Gly Val Gly Asn
E--> 1106 210 215 220
1107 Ser Ser Gly Asn Trp His Cys Asp Ser Thr Trp Met Gly Asp Arg Val
E--> 1108 225 230 235 240
1109 Ile Thr Thr Ser Thr Arg Thr Trp Ala Leu Pro Thr Tyr Asn Asn His
E--> 1110 245 250 255
1111 Leu Tyr Lys Gln Ile Ser Ser Gln Ser Gly Ala Ser Asn Asp Asn His
E--> 1112 260 265 270
1113 Tyr Phe Gly Tyr Ser Thr Pro Trp Gly Tyr Phe Asp Phe Asn Arg Phe
E--> 1114 275 280 285
1115 His Cys His Phe Ser Pro Arg Asp Trp Gln Arg Leu Ile Asn Asn Asn
E--> 1116 290 295 300
1117 Trp Gly Phe Arg Pro Lys Arg Leu Asn Phe Lys Leu Phe Asn Ile Gln
E--> 1118 305 310 315 320
1119 Val Lys Glu Val Thr Gln Asn Asp Gly Thr Thr Ile Ala Asn Asn
E--> 1120 325 330 335
1121 Leu Thr Ser Thr Val Gln Val Phe Thr Asp Ser Glu Tyr Gln Leu Pro
E--> 1122 340 345 350
1123 Tyr Val Leu Gly Ser Ala His Gln Gly Cys Leu Pro Pro Phe Pro Ala
E--> 1124 355 360 365
1125 Asp Val Phe Met Val Pro Gln Tyr Gly Tyr Leu Thr Leu Asn Asn Gly
E--> 1126 370 375 380
1127 Ser Gln Ala Val Gly Arg Ser Ser Phe Tyr Cys Leu Glu Tyr Phe Pro
E--> 1128 385 390 395 400
1129 Ser Gln Met Leu Arg Thr Gly Asn Asn Phe Thr Phe Ser Tyr Thr Phe
E--> 1130 405 410 415
1131 Glu Asp Val Pro Phe His Ser Ser Tyr Ala His Ser Gln Ser Leu Asp
E--> 1132 420 425 430
1133 Arg Leu Met Asn Pro Leu Ile Asp Gln Tyr Leu Tyr Tyr Leu Ser Arg
E--> 1134 435 440 445
1135 Thr Asn Thr Pro Ser Gly Thr Thr Thr Gln Ser Arg Leu Gln Phe Ser
E--> 1136 450 455 460
1137 Gln Ala Gly Ala Ser Asp Ile Arg Asp Gln Ser Arg Asn Trp Leu Pro
E--> 1138 465 470 475 480
1139 Gly Pro Cys Tyr Arg Gln Gln Arg Val Ser Lys Thr Ser Ala Asp Asn
E--> 1140 485 490 495
1141 Asn Asn Ser Glu Tyr Ser Trp Thr Gly Ala Thr Lys Tyr His Leu Asn Gly
E--> 1142 500 505 510
1143 Arg Asp Ser Leu Val Asn Pro Gly Pro Ala Met Ala Ser His Lys Asp
E--> 1144 515 520 525
1145 Asp Glu Glu Lys Phe Phe Pro Gln Ser Gly Val Leu Ile Phe Gly Lys

```

*same
error*

*move
this down
to next
line - Per 1.822
of sequence rules,
a MAXIMUM of 16 amino acids per line*

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```

E--> 1146      530                535                540
      1147 Gln Gly Ser Glu Lys Thr Asn Val Asp Ile Glu Lys Val Met Ile Thr
E--> 1148 545                550                555                560
      1149 Asp Glu Glu Glu Ile Arg Thr Thr Asn Pro Val Ala Thr Glu Gln Tyr
E--> 1150                565                570                575
      1151 Gly Ser Val Ser Thr Asn Leu Gln Arg Gly Asn Arg Gln Ala Ala Thr
E--> 1152                580                585                590
      1153 Ala Asp Val Asn Thr Gln Gly Val Leu Pro Gly Met Val Trp Gln Asp
E--> 1154                595                600                605
      1155 Arg Asp Val Tyr Leu Gln Gly Pro Ile Trp Ala Lys Ile Pro His Thr
E--> 1156                610                615                620
      1157 Asp Gly His Phe His Pro Ser Pro Leu Met Gly Gly Phe Gly Leu Lys
E--> 1158 625                630                635                640
      1159 His Pro Pro Pro Gln Ile Leu Ile Lys Asn Thr Pro Val Pro Ala Asn
E--> 1160                645                650                655
      1161 Pro Ser Thr Thr Phe Ser Ala Ala Lys Phe Ala Ser Phe Ile Thr Gln
E--> 1162                660                665                670
      1163 Tyr Ser Thr Gly Gln Val Ser Val Glu Ile Glu Trp Glu Leu Gln Lys
E--> 1164                675                680                685
      1165 Glu Asn Ser Lys Arg Trp Asn Pro Glu Ile Gln Tyr Thr Ser Asn Tyr
E--> 1166                690                695                700
      1167 Asn Lys Ser Val Asn Val Asp Phe Thr Val Asp Thr Asn Gly Val Tyr
E--> 1168 705                710                715                720
      1169 Ser Glu Pro Arg Pro Ile Gly Thr Arg Tyr Leu Thr Arg Asn Leu
E--> 1170                725                730                735

```

*same
error*

VERIFICATION SUMMARY

DATE: 12/13/2002

PATENT APPLICATION: US/09/717,789A

TIME: 14:50:19

Input Set : A:\W160289.txt

Output Set: N:\CRF4\12132002\I717789A.raw

L:970 M:283 W: Missing Blank Line separator, <400> field identifier
L:1082 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:24
M:332 Repeated in SeqNo=24